

CLAIMS

1. An electrophoretic dispersion liquid for an
5 electrophoretic display apparatus, comprising:
a plurality of electrophoretic particles each
surface of which is modified by one of a basic group
and an acidic group,
a liquid for holding said electrophoretic
10 particles to be dispersed therein, and
a polydiene, having the other group, dissolved
in said liquid.
2. A liquid according to claim 1, wherein said
15 polydiene is a graft polydiene having a grafted acidic
group or a grafted basic group.
3. A liquid according to Claim 1 or 2, wherein
said polydiene is a polybutadiene.
- 20 4. A liquid according to Claim 1 or 2, wherein
said polydiene is a polyisoprene.
5. A liquid according to Claim 1, wherein said
25 polydiene has an average molecular weight of
1,000 - 100,000.

6. A liquid according to Claim 1, wherein said polydiene has 1 - 50 acidic groups or basic groups per one molecule.

5 7. A liquid according to Claim 1, wherein said electrophoretic dispersion liquid contains said polydiene in an amount which is 0.01 to 3 times a weight of said electrophoretic particles.

10 8. A liquid according to Claim 1, wherein said polydiene is dissolved in said liquid in a temperature range of -20 to 0 °C.

9. A liquid according to Claim 1, wherein said
15 liquid is a nonpolar solvent.

10. A display apparatus, comprising:
an electrophoretic dispersion liquid which comprises a plurality of electrophoretic particles
20 each surface of which is modified by one of a basic group and an acidic group, a liquid for holding said electrophoretic particles to be dispersed therein, and a polydiene, having the other group, dissolved in said
liquid;
25 a closed cell for holding said electrophoretic dispersion liquid, and
a first electrode and a second electrode for

generating an electric field in said closed cell, said electric field being a voltage of a polarity which is alternately changed is applied between said first and second electrodes and moving said electrophoretic
5 particles.